AMENDMENTS TO THE CLAIMS

Listing of Claims:

1. (Currently amended) A method for ~~transformation of~~ selection of transgenic potato plants comprising

i) transforming potato plant cells with an expression vector comprising

a) a promoter active in plants,[[;]]

b) operably linked thereto a DNA sequence encoding a protein with the biological activity of an AHA synthase resistant to inhibitors of potato plant wildtype AHA synthase,~~; and~~

c) operably linked thereto regulatory sequences which serve as transcription termination and/or polyadenylation signals in plants, and

d) a heterologous DNA sequence containing information that causes changes in the carbohydrate concentration or the carbohydrate composition of regenerated potato plants,

ii) selecting for AHA synthase inhibitor resistant cells using an imidazolinone type herbicide as a selection agent; and

iii) regenerating the resistant cells to transgenic plants expressing the heterologous DNA sequence,

wherein an antibiotic is not used as a selection agent for selecting the resistant cells.

2. (Currently amended) The method ~~for transformation according to~~ of claim 1, wherein ~~the expression vector comprises~~ the DNA sequence ~~of~~ comprises the nucleotide sequence of SEQ ID NO: 1.

3. (Currently amended) The method ~~for transformation according to~~ of claim 1, wherein the ~~expression vector comprises a~~ DNA sequence comprises ~~selected from the group consisting of~~

a) ~~a DNA sequence comprising the nucleotide sequence of SEQ ID NO: 1;~~

b) ~~a DNA sequence comprising~~ a nucleotide sequence which hybridizes to a complementary strand of the nucleotide sequence of ~~a); and~~ SEQ ID NO: 1, or

~~c)~~ b) ~~a DNA sequence~~ comprising a nucleotide sequence which is degenerate to the nucleotide sequence of ~~a);~~ SEQ ID NO: 1,

wherein the DNA sequence encodes a protein possessing AHA synthase activity and confers resistance to AHA synthase inhibitors.

4. (Currently amended) The method ~~for transformation according to~~ of claim 1, wherein the promoter is an AHA synthase promoter from *Arabidopsis thaliana* or a nos promoter.

5. (Currently amended) The method ~~for transformation according to~~ of claim 1, wherein the terminator is a AHA synthase terminator from *Arabidopsis thaliana* or a OCS terminator.

6. (Cancelled)

7. (Currently amended) The method ~~for transformation according to~~ of claim 1, wherein the imidazolinone type herbicide is (RS) 2 (4 isopropyl 4 methyl 5 oxo 2 imidazolin 2 yl) 5 methoxymethylnicotinic acid.

8. (Cancelled)

9. (Currently amended) The ~~plant expression vector according to claim 8~~ method of claim 1, wherein the heterologous DNA sequence encodes a peptide, protein, antisense-, sense-RNA, viral RNA or ribozyme.

10. (Cancelled)

11. (Currently amended) The ~~plant expression vector according to claim 10~~ method of claim 1, wherein the heterologous DNA sequence contains information that causes increased production of amylopectin type starches.

12-19. (Cancelled)